

Listing of Claims

The following listing of claims will replace all prior versions, and listings, of claims in the subject application:

1. (original) An image processing method for processing image data to be output to an image forming apparatus that is capable of making a two-way recording to form an image on a recording medium by recording in a forward path and a return path of a scan by an ink-jet recording head, comprising:

a halftone process that is based on an inclined line-group keytone and maintains keytone continuity,

wherein the halftone process includes a dither process in which the inclined line-group keytone appears at a stage where the recording in the forward path is made.

2. (original) The image processing method as claimed in claim 1, wherein the dither process uses a dither mask that is formed by first patterns and second patterns, the first patterns have a plurality of different threshold values by combinations of dots recognizable as inclined line-group tone patterns, and the second patterns interpolate between the first patterns to obtain linear gradation values.

3. (original) The image processing method as claimed in claim 2, wherein the dither process uses a dither mask in which threshold values at dot positions recorded during the recording in the forward path are small relative to threshold values at dot positions recorded during the recording in the return path in a section between first and second threshold values,

the first threshold value emphasizes the inclined line-group keytone pattern by a combination of specific dots, and the second threshold value is higher than the first threshold value and emphasizes the inclined line-group keytone pattern by a combination of specific dots.

4. (original) The image processing method as claimed in claim 3, wherein at least 70% of the threshold values at the dot positions recorded during the recording in the forward path are smaller than the threshold values at the dot positions recorded during the recording in the return path.

5. (currently amended) The image processing method as claimed in claim 1 ~~any of claims 1 to 4~~, wherein the dither process uses a dither mask that copes with a two-way interlace recording or a multi-path recording of the image forming apparatus.

6. (currently amended) A printer driver for causing a computer to execute a halftone process according to the image processing method recited in claim 1 ~~any of claims 1 to 5~~, to output the image data to the image forming apparatus.

7. (original) An image processing apparatus provided with the printer driver recited in claim 6, to carry out a halftone process with respect to the data to be output to the image forming apparatus.

8. (original) An image forming apparatus capable of making a two-way recording to form an image on a recording medium by recording in a forward path and a return path of a

scan by an ink-jet recording head, comprising:

a halftone process part configured to carry out a halftone process that is based on an inclined line-group keytone and maintains keytone continuity,

wherein the halftone process part includes a dither process part configured to carry out a dither process in which the inclined line-group keytone appears at a stage where the recording in the forward path is made.

9. (original) The image forming apparatus as claimed in claim 8, wherein the dither process part uses a dither mask that is formed by first patterns and second patterns, the first patterns have a plurality of different threshold values by combinations of dots recognizable as inclined line-group tone patterns, and the second patterns interpolate between the first patterns to obtain linear gradation values.

10. (original) The image forming apparatus as claimed in claim 9, wherein the dither process part uses a dither mask in which threshold values at dot positions recorded during the recording in the forward path are small relative to threshold values at dot positions recorded during the recording in the return path in a section between first and second threshold values, the first threshold value emphasizes the inclined line-group keytone pattern by a combination of specific dots, and the second threshold value is higher than the first threshold value and emphasizes the inclined line-group keytone pattern by a combination of specific dots.

11. (original) The image forming apparatus as claimed in claim 10, wherein at least 70% of the threshold values at the dot positions recorded during the recording in the forward

path are smaller than the threshold values at the dot positions recorded during the recording in the return path.

12. (currently amended) The image forming apparatus as claimed in claim 8 ~~any of claims 8 to 11~~, wherein the dither process part uses a dither mask that copes with a two-way interlace recording or a multi-path recording of the image forming apparatus.

13. (currently amended) An image forming system comprising:
an image processing apparatus recited in claim 7; and
an image forming apparatus recited in claim 8 ~~any of claims 8 to 12~~.